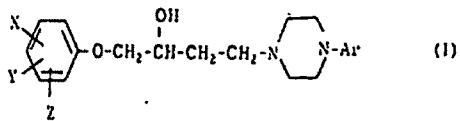


88-149149/22 B03
 ROBINS A H CO INC
 21.11.88-US-933180 (01.06.88) A61K-31/49
 1-Phenoxy-4-(4-arylpiperazinyl)-2-butanol - used esp. in medicament
 for combating type I allergic response in host
 C88-066435 R(BE CH DE FR GB IT U NL)

ROBN 21.11.88
 *EP-269-383-A

B(7-D5, 12-A7, 12-D2, 12-D6, 12-K2, 12-L4) N(I-A1)

Use of a 1-phenoxy-4-(4-arylpiperazinyl)-2-butanol of formula (I) in the prepn. of a medicament for combating Type I allergic response in a host is now.



Ar' = -C₆H₄(X')(Y')(Z') or 2-, 3- or 4-pyridyl;
 X, X' = H, 1-8C alkyl, 1-8C alkoxy, halogen, CF₃, NO₂, NH₂, MeCONH, Ph, X¹¹, Y¹¹C₆H₄, MeCO, CN, CONH₂, COOH or (1-8C)alkoxycarbonyl;
 Y, Y' and X¹¹ = X substit. other than opt. substn. Ph;
 Z, Z' = H, 1-8C alkyl or 1-8C alkoxy.

A salt and/or hydrate of (I) may also be used.

MORE SPECIFICALLY

Y = H, 1-8C alkyl or halogen;
 Z = H, 1-8C alkyl or NO₂;
 Y' = H, halogen or 1-8C alkoxy.

The use of 50 specific cpds. (I) is claimed, including 1-(2-chlorophenoxy)-4-(4-phenyl-1-piperazinyl)-2-butanol (Ia).

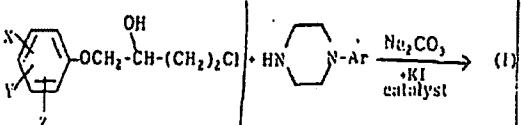
USE

(I) cause a decrease in the release of histamine and antagonise and organ effects of mediators involved in the immediate hypersensitivity response. They are therefore useful for treating allergic asthma, rhinitis, atopic dermatitis, chronic hives and allergic conjunctivitis.

Dose is 4-160 mg daily.

EP-269383-A+

PREPARATION



EXAMPLE

4-chlorophenoxy-2-hydroxybutyl chloride (35.1g). N-phenylpiperazine (32.6g) and i-PrOH (400 ml) were refluxed together for 48 hrs., then kept overnight at 0°C and filtered. The filtrate was treated with HCl/Et₂O and Et₂O, and the solid prod. was sepd., dissolved in dil. HCl and neutralised with eq. NaOH to give 3.6g of (Ia), m.pt. 100-101.5°C after recrystn. from i-PrOH. (30pp1248I/DDwgNou/U).
 (E)ISR: No Search Report.

EP-269383-A

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